XXXI General Meeting

of the

American Electrochemical Society

DETROIT, MICH.

MAY 2, 3, 4, 5, 1917

Local Committees.

Chairman
Edwin L. Crosby

Executive Committee.

S. L. Bigelow
E. C. Burdick
A. D. Cowperthwait
John Cranston
J. L. Dixon
Y. F. Hardcastle
E. G. Henderson
B. K. Koering
A. L. Marsh
E. M. Schmels
R. S. Stewart
F. T. F. Stephenson

Reception Committee.

J. D. Noyes
E. J. Possellus
R. S. Stewart
P. J. Savage

Transportation Committee.

J. M. O'Dea
A. D. McLay
John Kreusi
H. M. Lane
H. E. Lowe
A. J. Duke

Smoker Committee.

W. D. Dygert
W. J. Fitzgerald
W. L. Granger
C. F. Hirshfeld
L. H. Gumm
W. F. Bartels

Ladies' Entertainment Committee.

Mrs. Edwin L. Crosby
Mrs. Ward D. Dygert
Mrs. John D. Noyes

NOTICE.

Parties wishing hotel reservations or other arrangements made may communicate with Miss Edna J. Raybould, 18 Washington Boulevard, Secretary to the Committee on Arrangements.

All those expecting to arrive on Wednesday, May 2nd, to take trip through automobile plants, should advise Miss Raybould by post card in advance.

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GENERAL INFORMATION.

HOTEL HEADQUARTERS.

Headquarters and registration bureau will be at the Hotel Statler, Grand Circus Park. It is recommended that members write early for reservations. Rates at this and other Detroit hotels are given on the last page of the program.

Miss Edna J. Raybould, 18 Washington Boulevard, Secretary to the Committee on Arrangements, will negotiate hotel reservations or other arrangements, if desired.

On Wednesday afternoon, May 2, after 1 P.M., a registrar will be on hand at the Hotel Statler to receive arriving members and guests, distribute badges and programs, and give other information.

Guests should be introduced by members, and when registered may attend the sessions and receive such other courtesies as may be extended to them by the Local Committee or the Officers of the Society. Local members of other scientific societies, such as the Society of Automobile Engineers, Detroit Section A. I. E. E., and Detroit Engineering Society, are invited to register as guests without formal introduction.

PLACES OF MEETING.

All the sessions of Thursday, Friday and Saturday will be held in the Auditorium of the

Hotel Statler, excepting the address on Friday evening, which will be given in the Auditorium of the Detroit Board of Commerce Building, Lafayette Boulevard at Wayne Street.

SOCIAL FEATURES.

Wednesday evening, May 2, members and guests are invited to a "Get-together" subscription road-house dinner at "West Wood." The party will leave the Hotel Statler at 6:00 P.M.

Thursday evening, May 3, a smoker will be held at the Hotel Tuller, Roof Garden, at 8:00 P.M.

VISITS TO INDUSTRIAL PLANTS.

Wednesday afternoon, May 2, visits are scheduled officially to the Dodge, Packard, Hudson and other automobile plants. Automobiles will leave Hotel Statler at 2:00 P.M. Details of trip will be posted at headquarters.

Friday afternoon, May 4, leave Hotel Statler at 2:00 P.M. for Electric Steel Plants, Power Houses and the Lake Shore Drive.

ENTERTAINMENT FOR LADIES.

Thursday, May 3, Afternoon:

Lake Shore drive. Tea at Belle Isle or Detroit Athletic Club. Automobiles leave Hotel Statler 1:30 P.M.

Thursday, May 3, Evening:

Theatre Party, "Winter Garden Show," Garrick Theatre, 8:00 P.M.

Friday, May 4, Afternoon:

Drive through Bloomfield Hills. Tea at Bloomfield Hills Golf Club. Leave Hotel Statler at 1:30 P.M.

Conveyances and guides for shopping trips may be had at any time by application to Entertainment Committee, at the registration headquarters.

LOCAL TIME.

Eastern Standard Time is used in Detroit, and is the time indicated in this program. The railway time tables indicate **Central Time.** Visitors are cautioned to take notice of this fact.

PROGRAM.

WEDNESDAY, MAY 2, 1917.

1:00 P.M. Registration begins at Hotel Statler.

2:00 P.M. Leave Hotel Statler in automobiles for visits to automobile plants. All those expecting to take this trip should notify Miss Edna J. Raybould (Secretary to the Committee on Arrangements, 18 Washington Boulevard) by post-card, in advance, and should designate, when registering, which route they wish to take. Details of visits will be posted at registration headquarters.

6:00 P.M. Automobiles leave Hotel Statler for "West Wood," for a "Get-together" road-house subscription dinner, with members of local scientific societies.

After the dinner, the following meetings will be held, at "West Wood":

Meeting of Committee on Public Relations,

Meeting of Publication Committee,

Meeting of the Board of Directors.

THURSDAY, MAY 3, 1917.

9:30 A.M. **Annual Business Meeting of the Society,** in the Auditorium of the Hotel Statler.

NOTES.

(Numbers prefixed to papers on program indicate papers printed in advance, numbered correspondingly.)

Report of Board of Directors, announcement of annual election, vote on amendments to the Constitution, discussion of report proposed by Committee on Public Relations on "Water Power Legislation."

Presidential Address by the retiring President, Mr. F. A. J. FitzGerald.

Reading and Discussion of Papers.

(15) J. A. Mathews: Comments on the Electric Steel Industry.

R. F. Flinterman: The Electric Furnace in the Steel Casting Plant.

(24) J. L. Dixon: Notes on Electric Steel Melting.

2:00 P.M. Reading and Discussion of Papers, in the Hotel Statler.

(10) C. A. Buck: The Bethlehem 10-Ton Girod Steel Furnace.

(11) C. H. Vom Baur: Rennerfelt Electric Furnace Operation.

(26) A. A. Meyer: Electrical Characteristics of Electric Furnaces.

(19) R. G. Williams: The Grinding Wheel: A Connecting Link Between the Electric Furnace and the Automobile.

(8) Ligon Johnson: The History and Legal Phases of the Smoke Problem.

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(9) W. W. Strong: Theoretical Aspects of Electrical Fume Precipitation.

8:00 P.M. Complimentary Smoker, Hotel Tullar Roof Garden.

FRIDAY, MAY 4, 1917.

9:30 A.M. Reading and Discussion of Papers, in the Hotel Statler.

(18) W. R. Mott: Chemistry of the Flaming Arc in Relation to Luminescense.

(3) W. C. Moore: The Vosmaer Phenomenon.

(23) O. L. Kowalke: Acid Resisting Properties of Some Iron-Silicon Alloys.

(14) E. A. Richardson and L. T. Richardson: Corrosion of Cast Iron and its Bearing upon the Electrolytic Theory of Corrosion.

(25) C. F. Hirshfeld: Some Low Temperature Electro-Thermic Processes.

(21) W. C. Brooks: Automobile Storage Batteries.

(2) M. DeKay Thompson and L. R. Byrne: The Current Efficiency in charging Edison Storage Batteries.

(13) W. L. Badger: A Switchboard for Experimental Electric Furnace Work.

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(1) M. DeKay Thompson and T. C. Atchison: The Production and Properties of Magnetite Electrodes.

2:00 P.M. Conveyances leave Hotel Statler for visits to Electric Steel Plants, Power Houses, and Lake Shore Drive.

8:30 P.M. Session in the Auditorium of the Detroit Board of Commerce Building.

Address by Mr. Alex. Dow, President of the Detroit Edison Company. Subject: "Electrical Power from Coal."
(Ladies cordially invited to attend.)

SATURDAY, MAY 5, 1917.

9:30 A.M. Reading and Discussion of Papers, in the Hotel Statler.

(4) W. E. Koerner: The Electrolytic Behavior of Tungsten.

(5) M. DeKay Thompson and O. L. Mahlman: The Electrolytic Pickling of Steel.

(7) F. C. Mathers and K. S. Means: Tests of Antimony Plating Baths.

(6) F. C. Mathers, K. S. Means and B. F. Richard: Electro Deposition of Antimony from Fluoride Baths containing Addition Agents.

(17) F. C. Mathers and L. G. Blue: Addition Agents in the Electro-Deposition of Silver from Uncommon Salts.

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(16) F. C. Mathers and A. B. Leible: Essential Oils as Addition Agents in Plating Baths.

(12) T. B. Briggs, H. L. Pierson and H. S. Bennett: Electrical Endosmose and Adsorption.

(22) O. P. Watts and A. Brann: Evolution of Hydrogen from Cyanide Plating Solutions.

(20) T. W. Case: A Cuprous Oxide Photo-Chemical Cell.

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HOTEL DIRECTORY.

Hotel.	Address.	Rates.
Cadillac	Michigan Avenue and Washington Boulevard..	From $1.50 to $3.00 for single room with running water. From $2.00 to $5.00 for single room with bath. From $2.50 to $4.00 for double room with running water. From $3.50 to $7.00 for double room with bath.
Charlevoix ...	Park and Elizabeth Streets....	From $1.50 to $3.00 for single room with bath. From $4.00 up for double room with bath.
Pontchartrain.	Woodward and Cadillac Square	From $1.50 to $3.00 for single room without bath. From $3.00 up for single room with bath. From $3.50 to $4.00 for double room without bath. From $5.00 up for double room with bath.
Statler	Grand Circus Park	From $1.50 to $6.00 for single room with bath. From $1.50 to $2.00 for single room with shower bath only. From $2.00 to $6.00 for single room with both shower and tub bath. From $3.00 to $8.00 for double room with bath.
Tuller	Grand Circus Park	From $1.50 to $5.00 for single room with bath. From $3.00 to $7.00 for double room with bath.

OFFICERS OF THE SOCIETY.

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F. A. J. FitzGerald

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Dr. O. P. Watts, Secretary, University of Wisconsin.

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Carl Hering, Chairman.
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C. G. Fink, Chairman.
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F. J. Tone, Chairman.
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Entrance Fee, $5.00. Yearly Dues, $5.00. Application blanks and any other information may be obtained from the Secretary. Each member receives the Publications of the Society, in pamphlet form, containing the papers and discussions of the General Meetings of the Society. Members can obtain the bound volumes of Transactions for an extra payment of $5.00 per year.